| i         | Index of Claims     |              |               |             |                       |         |               |             |                |          |                |                |                         | Application No. |          |                |          |          |            |               |          | , , p          |          |         |  |          |   |  |
|-----------|---------------------|--------------|---------------|-------------|-----------------------|---------|---------------|-------------|----------------|----------|----------------|----------------|-------------------------|-----------------|----------|----------------|----------|----------|------------|---------------|----------|----------------|----------|---------|--|----------|---|--|
|           |                     |              |               |             |                       |         |               |             |                |          |                | 09/737,185     |                         |                 |          |                |          |          |            | BOWMAN ET AL. |          |                |          |         |  |          |   |  |
|           |                     |              |               |             |                       |         |               |             |                |          |                |                | Examiner                |                 |          |                |          |          |            |               | Art Unit |                |          |         |  |          |   |  |
|           |                     |              |               |             |                       |         |               |             |                |          |                | -              |                         |                 |          |                |          |          |            |               |          |                |          |         |  |          |   |  |
| 1         |                     |              | H             |             |                       |         |               |             | i              |          |                | Ve             | Yelena G. Gakh, Ph.D.   |                 |          |                |          |          |            |               | 174      | 13             |          |         |  |          |   |  |
| <b></b> - |                     |              | _             |             |                       |         |               |             |                |          |                |                | Terena G. Garet, Fit.D. |                 |          |                |          |          |            |               |          |                |          |         |  |          |   |  |
| 1         |                     |              | $\overline{}$ |             |                       | ı       | $\overline{}$ |             | _              |          |                |                | 7                       | _               | т        |                |          |          | l          |               |          |                |          |         | 3  |          |   |  |
|           | ,                   |              |               | √ Rejected  |                       |         | (Through nume |             |                |          |                | at) N          |                         |                 |          | Non-Elected    |          |          | 1          | A             |          | App            | eal      |         | 1  |          |   |  |
| •         |                     |              |               |             |                       |         | Cancelled     |             |                |          |                | _   "          |                         |                 |          |                |          |          |            |               |          |                | 1        |         |  |          |   |  |
|           |                     |              |               |             |                       |         |               |             | _              | estric   |                |                |                         | 1               | ŀ        |                |          |          | 1          | 0             |          | ·              | ctec     |         | 1  |          |   |  |
| = Allowed |                     |              |               |             | +                     |         | K             |             | I Interference |          |                |                |                         |                 | "        | ٠.             | pje      | CUBE     | ,          | 1             |          |                |          |         |  |          |   |  |
| ĺ         |                     |              |               |             |                       |         |               |             |                |          |                |                |                         |                 |          |                | <b>.</b> |          |            |               |          |                | 3        |         |  |          |   |  |
|           | Claim               |              |               | Date        |                       |         | Claim         |             |                | asim     | Da Da          |                |                         | le              |          |                | Claim    |          | L,         | · · · · ·     |          | Date           |          |         | _  |          |   |  |
|           |                     | 705          | 1_            |             |                       |         | 11            |             | 1_             | 6        |                |                | 1                       | 1               | ı        |                | -10      | ì _      | 1 70       | П             | 1        |                |          | 1       |  |          |   |  |
| ł         | Final               | Original     | 17/01         | 1 1         |                       |         | 1             | - 13        | E E            | Original |                |                | 1                       | 1               | ı        | 11             |          | Final    | Original   | П             |          |                | !!       | 1       | 11   |          |   |  |
|           | 4                   | ò            | =             | ! !         |                       |         | 1             | 10          | ., "           | ò        |                | lί             |                         |                 | l        | 11             |          | ۱ "      | ŏ          | П             |          |                |          | 1       | П  | ł        |   |  |
|           | $\vdash$            | <del>3</del> | l d           | $\vdash$    | 11                    | +       | $\vdash$      | <b>-</b> ∤ੁ | -              | 51       | +              | 1+             | ╁╴                      | ╁               | ÷        | +-+            |          |          | 101        | Н             | - -      | $\vdash$       | H        | +-      | 1 1  | ┪        |   |  |
|           | $\vdash$            | 2            | i             |             | <del>i</del>          | +       | 11            | - 1         |                | 52       | -+-            | Н              | 1                       | 1               | t        | 11             | 10       | -        | 102        | Н             | _        | ✝              | H        | 1       | Н  | ╡        |   |  |
|           | $\vdash$            | 3            | Н             | $\vdash$    | 111                   | +       | 11            | -1          |                | 53       | _              | П              | $\top$                  | 1               | İ        | +              |          |          | 103        | П             | 1        |                |          | 1       | П  | T        |   |  |
| 1         | 1                   | 4            | П             | П           |                       | $\neg$  | П             | 7           |                | 54       | 7              |                | 1                       |                 | 1        |                |          |          | 104        |               |          | Ι              | 1        | Т       | П  | 7        |   |  |
|           |                     | 5            |               |             |                       | $\perp$ |               | $\Box$      |                | 55       |                |                | 1                       |                 | Г        |                | _        |          | 105        | $\Box$        |          |                |          |         | П  |          |   |  |
| 1         | $\perp$             | 6            | Ш             | ш           | $\mathbf{H}$          | _       | -             | _           | -              | 56       |                | 1              | -                       | Ļ.              | Ļ        | 1.             | -10      |          | 106        |               | 4        | $\perp$        |          | 4       | ₽  | _        |   |  |
| i         | $\vdash$            | 1            | Ш             | <b>⊢</b>    | +                     | -       | -             | 4           |                | 57       |                | !              | 4                       | <u>.</u>        | ₽        | 11             | -115     |          | 107        |               | -        | -              |          | 4       | Н  | _        |   |  |
| Ì         | $\vdash$            | Q            | Ш             | Н-          | ++                    | +       | H             | -1          | -              | 58<br>59 | ÷              | :              | +-                      | -               | ╀        | ++             |          | ⊢        | 108        | Н             | +        | -              |          | +       | ╌  | 4        |   |  |
|           | $\vdash$            | 9            | Н             | ⊢           | +                     |         | -             | -[]         | -              | 99       | -              | ! +            | +                       |                 | ┞        | +              | - 1      |          | 110        | Н             |          | Н              | $\vdash$ | +       | ₩  |          |   |  |
|           | $\vdash$            | 11           | Н             | $\vdash$    | 1-1-1                 | +       | 1 1           | ٦.          | -              | 61       | +              | 1 +            | +-                      | -               | t        | ++             | -        | $\vdash$ | 111        | Н             |          | Н              |          | +       | 1 1  | -        |   |  |
|           | -                   | 12           | Н             | <del></del> | H                     | +       | 1             | -0          |                | 62       | +              | $\vdash$       | +-                      | r               | ۲        | ++             | -        | $\vdash$ | 112        | 1             | +        |                | $\vdash$ | +-      | $\vdash$   | 1        |   |  |
|           |                     | 13           | Н             | 1           |                       | $\neg$  | П             | 7           |                | 63       | 1              |                | 1                       |                 | t        | 11             | ٦.,      |          | 113        |               | $\top$   | i i            | $\vdash$ | $\top$  | П  |          |   |  |
|           |                     | 14           |               | Ť           |                       |         |               | <b>_</b>    |                | 64       | $\blacksquare$ |                |                         |                 | L        |                |          |          | 114        |               | 工        |                | Н        |         |  |          |   |  |
|           |                     | 15           | Ш             |             |                       |         |               | <b>□</b>    |                | 65       |                | 1              | 1                       | 1               | L        | $\perp$        |          |          | 115        |               |          | $\perp$        |          | 1       |  | _        |   |  |
|           |                     | 16           | Ш             | Щ           | $\Box$                | _       |               | 4           | <u> </u>       | 66       | _              | H              | 1                       | -               | L        | 44             | - 1      | Ш        | 116        | Ш             |          | Ш              | Н        | 4-      | $\sqcup$   | 4        |   |  |
|           | $\vdash$            | <b>E</b>     | Ш             | -           | +++                   |         | ↤             | -6          | -              | 67<br>68 | +              | $\vdash$       | ┿                       | -               | Ļ        | +-+            | -        | ├—       | 117        | Н             | +        | Н              | $\vdash$ | +       | ₽  |          |   |  |
|           | $\vdash$            | 3            | Н             |             | <del>}    </del>      | +       | Н             | -10         | -              | 69       | +              | <del>   </del> | -                       | -               | ÷        | +-+            | -0       | ⊢        | 119        | Н             | +        | Н              | $\vdash$ | +       | +  |          |   |  |
|           | $\vdash$            | 20           | Н             | $\vdash$    | <del>i    </del>      | +       | $\vdash$      | ٦.          | -              | 70       | +              | Н              | Ť                       |                 | i        | ++             | 4.0      | $\vdash$ | 120        | Н             | +        | Н              | $\vdash$ | +-      | 1 1  | ⊣        |   |  |
| ļ         |                     | 21.          | 7             |             |                       |         | $\Box$        | 7           |                | 71       |                |                | 1                       |                 | r        | 17             | 7        |          | 121        |               |          | $\Box$         |          | -       | $\Box$   | 7        |   |  |
| Ì         | П                   | 23           |               |             |                       | $\Box$  |               |             |                | 72       |                |                |                         |                 |          |                |          |          | 122        |               | 工        |                |          |         |  | <b>_</b> |   |  |
|           |                     |              |               |             |                       | $\perp$ |               | _           |                | 73       | -              |                | ?                       |                 | L        |                |          |          | 123        |               |          | П              |          | $\perp$ |  | _        |   |  |
|           |                     | 4            | Ц             |             |                       | _       |               | -8          | <u> </u>       | 74       |                | 1              | <u>i</u>                |                 | L        | 14             | 4.0      | ᄂ        | 124        |               | _        | Н              |          | _       | Н  | -        |   |  |
|           | -                   | 15           | -             |             | +                     | +       | ⊢             |             | <b>-</b>       | 75<br>76 | ÷              | ! +            |                         | Н               | ┡        | 1 :            | -10      |          | 125        |               | -        | Н              |          |         | ⊢  |          |   |  |
|           | Н                   | 7            | Н             |             | ++                    |         | ₩             | -10         | <b>-</b>       | 77       | -              | ⊢              | <del></del>             | Н               | ⊢        | ++             | ⊣ા       | ├        | 126        | Н             | +        | Н              | +        | +       | ⊢⊦   | ┪        |   |  |
|           | $\vdash$            | 28           | $\vdash$      | -           | <del>     </del>      | +       | $\vdash$      | -           | $\vdash$       | 78       | -              | Н              | +                       | Н               | ┪        | <del>: 1</del> | ⊣. ി     | $\vdash$ | 128        | Н             | +        | Н              | +        | +-      | <del>                                     </del> | -        |   |  |
| ĺ         | $\vdash$            | 20           | $\vdash$      | 1           | HH                    | +       | $\vdash$      | -           | -              | 79       | +              | $\vdash$       | $\top$                  | Н               | Н        | 1-1            | ٦.∷      | -        | 129        | Н             | _        | Н              | -        | +-      | Н  | ⊣        |   |  |
| ŀ         | $\vdash$            | 30           | $\dashv$      | <del></del> | 1-1-1                 | -1-     | 1             |             |                | 80       | -1-            | $\vdash$       | 1                       | Н               | T        | 11             | 7.1      | -        | 130        | Н             | _        | Н              | 1        | +       | $\vdash$   | 7        |   |  |
|           |                     | 1            |               |             |                       |         |               |             |                | 81       | $\top$         |                |                         |                 | Г        |                |          |          | 131        |               |          |                | $\neg$   |         |  |          |   |  |
|           |                     | 12           |               |             | $\Box$                |         | П             |             |                | 82       | $\Box$         |                |                         |                 |          | Ш              | ]:.:     |          | 132        |               | 1        |                |          |         | П  |          |   |  |
|           |                     | 13           |               | $\perp$     |                       |         |               |             |                | 83       |                | 1              |                         |                 | L        | $\perp$        | 10       |          | 133        |               | _        |                | _        | 4_      | Ш  |          |   |  |
|           | $\vdash$            | 14           | -             |             | ++                    | -       | 1             | ٦.          | 1              | 84       |                | -              | -                       | _               | <u> </u> | -1-1           |          |          | 134        | Н             | _        |                | -        | 1       | Н  | 4        |   |  |
|           | $\vdash$            | 36           | $\dashv$      | -1-         | HH                    | +       | $\vdash$      | -∤∵         | ⊢              | 85<br>86 |                | ⊢              | 1-1                     |                 | _        | ╌┼╌            | 4        |          | 135<br>136 |               |          | -              | +        | +       | H  | 4        |   |  |
|           | $\vdash$            | 36<br>37     | -             | -           | <del>!    </del>      |         | $\vdash$      | -1          |                | 87       |                |                | +-1                     | -               | -        | ++             | - J      |          | 137        | Н             | +        | Н              | -+       | i-      | 1-1-   | -        |   |  |
|           | $\vdash \downarrow$ | 365          | 1             |             | H                     | +       | H             | ۱.          | $\vdash$       | 88       | +              |                | ++                      | H               | -        | ++             | 4 1      |          | 138        | H             | +        | $\vdash$       | +        | +       | $\vdash$   | ┥        |   |  |
|           | <b>┌</b> ॏ          | 36)<br>20)   |               | _           | 111                   | 1       | $\sqcap$      | ٦.          |                | 89       | 1              |                | 11                      | П               | Т        | 11             | 1-1      |          | 139        | П             | $\top$   | П              | +        | Ì       |  | 7        |   |  |
|           | +                   | 40           | 1             |             |                       |         | П             | 7:          |                | 50       |                |                |                         |                 | L.       |                |          |          | 140        |               |          |                | 1        |         |  | ]        |   |  |
|           |                     | 41           | 3             | 1           | Ш                     |         |               | ]           |                | 91       | $\top$         |                | $\Gamma$                |                 |          | i              | ] [      |          | 141        | L             |          |                | I        |         |  | _        |   |  |
|           | $\Box$              | 42           | IJ            | I           | Ш                     | 1       |               | 42          |                | 92       | - -            | $\Box$         | $\Box$                  | П               | Г        | $\Box$         |          |          | 142        | П             | 1        | H              | 4        | $\perp$ | Щ  | 4        |   |  |
|           |                     | 4            | Щ             | +           | $\sqcup \sqcup$       | +       | <u>i</u>      | 4.7         | <u> </u>       | 93       | $\perp$        | 1              | +                       | Н               | L        | +              | - 1      | $\Box$   | 143        | Н             |          | H              | +        | +       | ⊢⊹   | -        |   |  |
| _         | <b>↓</b>            | 44.1         | ~             | -           | +++                   | +       | Н             | +           | Ή—             | 94<br>95 | +              | +              | +                       | Н               | Н        | +              | -        |          | 144        | +             | +-       | ! -            | -        | +       | ⊢⊢   | -        |   |  |
|           | $\vdash$            | 45<br>46     | -             | +           | <del>}         </del> | -       | +             | +           | $\vdash$       | 96       |                | $\vdash$       | +i                      | H               | -        | ++             | ۱ -      | -        | 145        | H             | +        | Н              | +        | +-      | H  | -        |   |  |
|           | $\vdash$            | 77           | +             | +           | <del>i    </del>      | -!-     | H             | ન ં         | $\vdash$       | 07       | $\dashv$       | -              | 1-1                     |                 | -        | + +            | ન ો      | -        | 140        | $\vdash$      | +        | <del>i 1</del> | -        | +-      |  | -1       | i |  |

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